

Allentown School District Mathematics Requirements

The Allentown School District Mathematics Standards were written to provide an articulation of the Pennsylvania Standards. Students in the Allentown School District will meet the Pennsylvania requirements for Grade 11 by completing the study of the course content in the Kindergarten through Grade Eight sequence followed by Algebra and Geometry.

The two year combination of Algebra I-A and Algebra I-B is equivalent to the one year College Preparatory Algebra I course in both content and rigor.

The College Preparatory Geometry course introduces students to formal proofs not required in the Geometry course.

Students who desire mathematics enrichment may continue their studies in Algebra II, Trigonometry, College Algebra, Analytic Geometry, Calculus, Business Mathematics, Consumer Mathematics, and Computer Programming I and II.

Correlations of the Allentown School District Mathematics Standards to the Pennsylvania Standards are included in this document. To eliminate repeated citations, the following two Pennsylvania Standards are quoted here. These are understood to be fundamental to the mathematics education of every student in the Allentown School District, in every class and course.

- 2.5.11.B Use symbols, mathematical terminology, standard notation, mathematical rules, graphing and other types of mathematical representations to communicate observations, predictions, concepts, procedures, generalizations, ideas and results.
- 2.5.11.C Present mathematical procedures and results clearly, systematically, succinctly and correctly.

Further, the use of calculators and computer software should be integrated into the curriculum wherever appropriate to meet the following Pennsylvania Standard.

- 2.2.11.F Demonstrate skills for using computer spreadsheets and scientific and graphing calculators.